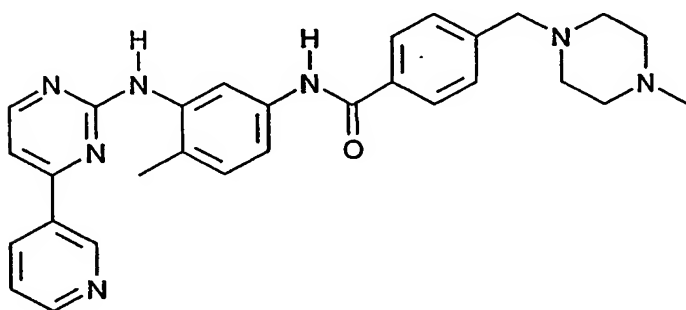


Claims:

1. The use of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-(4-pyridin-3-yl)pyrimidin-2-yl-amino)phenyl]-benzamide of the formula I



(I)

or a pharmaceutically acceptable salt thereof for the manufacture of pharmaceutical compositions for enhancing the effect of radioimmunotherapy of tumors.

2. A combination, such as a combined preparation or a pharmaceutical composition, which comprises (a) N-{5-[4-(4-methyl-piperazino-methyl)-benzoylamido]-2-methylphenyl}-4-(3-pyridyl)-2-pyrimidine-amine and at least one compound selected from (b) a radioimmunoconjugate agent in which the active ingredients are present independently of each other in free form or in the form of a pharmaceutically acceptable salt and optionally at least one pharmaceutically acceptable carrier; for simultaneous, separate or sequential use.

3. A method of treating a human suffering from tumors and who will be, is or was subject to radioimmunotherapy, which comprises administering to a said human in need of such treatment, a dose of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]-benzamide of the formula I or a pharmaceutically acceptable salt thereof, for enhancing the effect of radioimmunotherapy.

4. Use, combination or method according to any one of claims 1 to 3 wherein a daily dose of 10 to 1000 mg of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]-benzamide of the formula I is administered to an adult human.

5. Use, combination or method according to any one of claims 1 to 4 wherein a pharmaceutically acceptable acid addition salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-

methyl-3-(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]-benzamide of the formula I is administered.

6. Use, combination or method according to claim 5 wherein a monomethanesulfonate salt of 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]-benzamide of the formula I is administered.

7. Use, combination or method according to any one of the preceding claims wherein the radioimmunoconjugate is selected from the group comprising ^{131}I -81C6, ^{131}I -MN, ^{131}I -14, ^{131}I -F6, ^{131}I -A5B7, ^{131}I -HMFG1, ^{131}I -BrE3, ^{131}I -CC49, ^{131}I -B72.3, ^{90}Y -81C6, ^{90}Y -MN, ^{90}Y -14, ^{90}Y -F6, ^{90}Y -A5B7, ^{90}Y -HMFG1, ^{90}Y -BrE3, ^{90}Y -CC49 and ^{90}Y -B72.3.

8. Use, combination or method according to claim 8 wherein the radioimmunoconjugate is selected from the group consisting of ^{131}I -CC49 and ^{131}I -B72.3.

9. Use, combination or method according to any one of the preceding claims wherein 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-(4-pyridin-3-yl)pyrimidin-2-ylamino)phenyl]-benzamide of the formula I is administered within a time period of 12 days before to 12 days after radioimmunotherapy.

10. A method of treating a warm-blooded animal, especially a human having a tumor, comprising administering to said animal a combination, such as a combined preparation or a pharmaceutical composition, which comprises (a) N-{5-[4-(4-methyl-piperazino-methyl)-benzoylamido]-2-methylphenyl}-4-(3-pyridyl)-2-pyrimidine-amine, and at least one compound selected from (b) a radioimmunoconjugate agent in which the active ingredients are present independently of each other in free form or in the form of a pharmaceutically acceptable salt and optionally at least one pharmaceutically acceptable carrier.

11. Use, or method according to any one of claims 1, 3 to 8 for enhancing the effect of radioimmunotherapy in tumors selected from pancreatic tumors, lung cancer, breast cancer, epidermoid carcinomas, renal-cell carcinomas, neuroendocrine tumors, gynaecological cancer, urological cancer, gastrointestinal cancer, colorectal adenocarcinoma or colon cancer, pancreatic adenocarcinoma; glioblastomas, head and/or neck cancer, central

nervous system cancer, bones tumors, solid pediatric tumors, haematological malignancies, AIDS-related cancer, soft-tissue sarcomas, and skin cancer.

12. A kit for radioimmunotherapy, comprising:

- a) a radioimmunoconjugate agent which specifically binds to a tumor-associated antigen, and
- b) 4-(4-methylpiperazin-1-ylmethyl)-N-[4-methyl-3-(4-pyridin-3-yl)pyrimidin-2-yl-amino]phenyl-benzamide of the formula I or a pharmaceutically acceptable salt thereof.